



Water-Data Report 2009

01350100 SCHOHARIE RESERVOIR NEAR GRAND GORGE, NY

Upper Hudson Basin
Schoharie Subbasin

LOCATION.--Lat 42°21'21", long 74°26'42" referenced to North American Datum of 1927, Schoharie County, NY, Hydrologic Unit 02020005, in Shandaken Tunnel intake house on Intake Road, 1.6 mi north of junction of Intake Road and State Highway 23, 2.5 mi upstream from Gilboa Dam, and 2.6 mi east of Grand Gorge.

DRAINAGE AREA.--315 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1973 to current year. Monthly contents only published as "at Gilboa" for September 1928 to December 1972.

REVISED RECORDS.--WDR NY-86-1: 1956 (maximum elevation). WDR NY-90-1: Drainage area.

GAGE.--Water-stage recorder. Supplementary nonrecording gage used for periods when reservoir elevation is below 1,065.00 ft. Prior to Nov. 2001, supplementary nonrecording gage used for periods when reservoir elevation was below 1,072.50 ft. Datum of gage is NGVD of 1929 (levels by Board of Water Supply, City of New York).

COOPERATION.--Capacity table and once-daily nonrecording gage readings provided by Department of Environmental Protection, City of New York.

REMARKS.--Reservoir is formed by masonry and earth dam. Storage began July 24, 1926. Usable capacity 19,583 mil gal between minimum operating level, elevation, 1,050.00 ft, and crest of spillway, elevation, 1,130.00 ft. Dead storage below elevation 1,050.00 ft, 1,968 mil gal. A 220 ft-wide notch was cut into the 1,324 ft-wide spillway in February 2006. Elevation of the crest of the notch is 1124.5 ft. Figures given herein represent usable contents. Reservoir impounds water except for periods of spilling, for diversion through Shandaken Tunnel into Esopus Creek to Ashokan Reservoir, for New York City water supply. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 1,136.68 ft, Jan. 19, 1996, contents, 22,235 mil gal; minimum elevation observed (after initial filling), 1,062.00 ft, Aug. 20, 1970, contents, 1,520 mil gal.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1,129.44 ft, July 31, contents, 19,382 mil gal; minimum elevation, 1,100.70 ft, Oct. 25, contents, 10,278 mil gal.

Capacity table
(elevation, in feet, and usable contents in million gallons)

1,063.0	1,670	1,120.0	16,100
1,080.0	4,970	1,133.0	20,700

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ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,107.35	1,125.60	1,122.61	1,125.69	1,124.42	1,120.92	1,125.11	1,121.68	1,125.03	1,125.62	1,128.15	1,124.68
2	1,107.98	1,126.20	1,123.47	1,125.54	1,124.43	1,121.73	1,125.04	1,121.42	1,124.94	1,125.52	1,126.69	1,124.56
3	1,108.27	1,125.92	1,123.48	1,125.53	1,124.42	1,122.12	1,125.08	1,121.12	1,124.87	1,125.57	1,126.24	1,124.48
4	1,107.55	1,125.93	1,123.17	1,125.36	1,124.38	1,122.50	1,126.00	1,120.75	1,124.80	1,125.47	1,125.84	1,124.30
5	1,106.56	1,126.03	1,122.86	1,125.35	1,124.31	1,122.87	1,125.73	1,120.28	1,124.57	1,125.32	1,125.58	1,123.46
6	1,105.65	1,126.05	1,122.38	1,125.23	1,124.19	1,123.31	1,125.48	1,119.83	1,123.62	1,125.13	1,125.40	1,122.47
7	1,105.38	1,126.41	1,121.82	1,125.19	1,124.02	1,124.13	1,125.52	1,119.50	1,122.58	1,124.88	1,125.26	1,121.54
8	1,105.30	1,126.09	1,121.06	1,125.23	1,123.80	1,125.54	1,125.43	1,119.27	1,121.97	1,124.83	1,125.15	1,121.11
9	1,105.21	1,125.79	1,120.25	1,125.10	1,123.86	1,126.91	1,125.31	1,119.09	1,121.93	1,124.78	1,125.06	1,120.89
10	1,105.09	1,125.57	1,119.96	1,124.89	1,123.38	1,126.87	1,125.23	1,119.09	1,121.97	1,124.69	1,125.07	1,120.64
11	1,104.90	1,125.39	1,120.62	1,124.85	1,122.97	1,126.27	1,125.30	1,119.06	1,121.93	1,124.64	1,125.04	1,120.41
12	1,104.68	1,125.26	1,125.38	1,124.86	1,123.86	1,125.97	1,125.30	1,119.10	1,121.95	1,125.07	1,124.89	1,120.64
13	1,104.44	1,125.17	1,126.78	1,124.81	1,125.19	1,125.64	1,125.20	1,119.16	1,122.05	1,125.08	1,124.77	1,121.23
14	1,104.19	1,125.17	1,126.05	1,124.77	1,124.98	1,125.45	1,125.10	1,119.25	1,122.84	1,124.85	1,124.68	1,121.50
15	1,103.91	1,125.19	1,125.88	1,124.68	1,124.77	1,125.33	1,124.97	1,119.48	1,123.68	1,124.71	1,124.59	1,121.59
16	1,103.65	1,125.85	1,126.10	1,124.60	1,124.52	1,125.25	1,124.81	1,119.75	1,124.82	1,124.62	1,124.52	1,121.57
17	1,103.42	1,125.71	1,125.97	1,124.51	1,124.27	1,125.24	1,124.60	1,120.48	1,125.10	1,124.56	1,124.45	1,121.50
18	1,103.13	1,125.40	1,125.80	1,124.50	1,123.86	1,125.20	1,124.47	1,121.70	1,125.46	1,125.25	1,124.37	1,121.39
19	1,102.82	1,125.04	1,125.60	1,124.53	1,123.46	1,125.22	1,124.37	1,122.60	1,126.25	1,125.11	1,124.37	1,121.22
20	1,102.48	1,124.75	1,125.52	1,124.53	1,122.96	1,125.21	1,124.22	1,123.33	1,125.89	1,124.94	1,124.35	1,121.03
21	1,102.15	1,124.57	1,125.43	1,124.54	1,122.34	1,125.09	1,124.14	1,123.95	1,128.02	1,124.85	1,124.36	1,120.82
22	1,101.83	1,124.29	1,125.28	1,124.53	1,121.73	1,125.02	1,124.45	1,124.47	1,127.34	1,124.87	1,124.74	1,120.61
23	1,101.48	1,123.94	1,125.17	1,124.53	1,121.04	1,124.95	1,124.56	1,124.76	1,126.40	1,124.81	1,124.90	1,120.40
24	1,101.12	1,123.58	1,125.33	1,124.54	1,120.25	1,124.87	1,124.26	1,124.86	1,125.94	1,124.78	1,124.96	1,120.20
25	1,100.92	1,123.40	1,126.91	1,124.47	1,119.41	1,124.82	1,123.83	1,124.89	1,125.77	1,125.50	1,124.84	1,119.98
26	1,108.99	1,123.52	1,126.33	1,124.40	1,118.67	1,124.79	1,123.32	1,124.82	1,125.81	1,125.54	1,124.70	1,119.72
27	1,113.15	1,123.42	1,126.16	1,124.31	1,118.11	1,124.75	1,122.82	1,124.97	1,125.81	1,125.41	1,124.60	1,119.50
28	1,116.21	1,123.19	1,127.19	1,124.23	1,119.37	1,124.72	1,122.49	1,125.06	1,125.81	1,125.18	1,124.50	1,119.47
29	1,119.73	1,122.89	1,127.02	1,124.24	---	1,124.72	1,122.26	1,125.24	1,125.57	1,125.08	1,124.61	1,119.58
30	1,122.07	1,122.54	1,126.41	1,124.35	---	1,125.07	1,121.98	1,125.31	1,125.41	1,127.81	1,124.88	1,119.60
31	1,123.77	---	1,126.07	1,124.41	---	1,125.24	---	1,125.16	---	1,127.88	1,124.83	---
Mean	1,106.88	1,124.93	1,124.58	1,124.78	1,122.96	1,124.70	1,124.55	1,121.92	1,124.60	1,125.24	1,125.05	1,121.34
Max	1,123.77	1,126.41	1,127.19	1,125.69	1,125.19	1,126.91	1,126.00	1,125.31	1,128.02	1,127.88	1,128.15	1,124.68
Min	1,100.92	1,122.54	1,119.96	1,124.23	1,118.11	1,120.92	1,121.98	1,119.06	1,121.93	1,124.56	1,124.35	1,119.47
†	17671	16901	18106	17590	16232	17847	16722	17815	17977	19342	17702	15953
††	+279	-39.7	+60.1	-25.8	-75.0	+80.6	-58.0	+54.6	+8.36	+68.1	-81.8	-90.2

	Calendar Year 2008	Water Year 2009
Mean	1,117.57	1,122.61
Max	1,129.23	1,128.15
Min	1,098.74	1,100.92
††	+1.34	+16.4

† Contents, in million gallons, at 2400 hours on last day of month.

†† Change in contents, equivalent in cubic feet per second.

Note: Mean elevations for Sept. 27-29, computed based on readings at 0800 and on adjacent days.

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